

State Water Resources Control Board

Division of Drinking Water

July 18, 2016
System No.: 1610001

Board of Directors
P.O. Box 486
Armona, CA 93202

RE: **Citation No. 03-12-16C-014**
Violations of Provision of Domestic Water Supply Permit Amendment No. 03-12-12P-005 for Color Treatment Technique and Color Maximum Contaminant Level

Dear Board of Directors,

Enclosed is a Citation issued to the Armona Community Services District (Water System) public water system.

The Water System will be billed at the Division's hourly rate (currently estimated at \$153.00) for the time spent on issuing this Citation. The California Health and Safety Code Section 116577 provides that a public water system must reimburse the Division for actual costs incurred by the Division for specified enforcement actions, including but not limited to, preparing, issuing and monitoring compliance with a citation. At this time, the Division has spent approximately 1 hours on enforcement activities associated with this violation.

The Water System will receive a bill sent from the Division of Drinking Water Fee Billing Unit in August of the next fiscal year. This bill will contain fees for any enforcement time spent for the current fiscal year.

If you have any questions regarding this letter and the enclosed citation, please contact Shen Huang at (559) 447-3484 or me at (559) 447-3300.

Sincerely,



Tricia A. Wathen, P.E.
Senior Sanitary Engineer, Visalia District
SOUTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

TAW/SH

Enclosures

cc: Kings County Environmental Health Department (Citation only)
Kelly Granger, Armona CSD General Manager

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

Name of Public Water System: Armona Community Services District

Water System No: 1610001

Attention: Kelly Granger, General Manager
Board of Directors
P.O. Box 486
Armona, CA 93202

Issued: July 18, 2016

CITATION FOR NONCOMPLIANCE
FOR VIOLATIONS OF PROVISION OF
DOMESTIC WATER SUPPLY PERMIT AMENDMENT NO. 03-12-12PA-005
FOR COLOR TREATMENT TECHNIQUE
AND COLOR MAXIMUM CONTAMINANT LEVEL
SECTION 64449(a), TITLE 22, CALIFORNIA CODE OF REGULATIONS

JULY 2016

The California Health and Safety Code (hereinafter "CHSC"), Section 116650 authorizes the State Water Resources Control Board (hereinafter "State Board") to issue a citation to a public water system when the State Board determines that the public water system has violated or is violating the California Safe Drinking Water Act (hereinafter "California SDWA"), (CHSC,

1 Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation,
2 standard, permit, or order issued or adopted thereunder.

3
4 In addition, CHSC, Section 116540 authorizes State Board to issue domestic water supply
5 permits and to be able to impose permit conditions and requirements for system
6 improvements.

7
8 The State Board, acting by and through its Division of Drinking Water (hereinafter "Division")
9 and the Deputy Director for the Division, hereby issues this citation pursuant to Section 116650
10 of the CHSC to the Armona Community Services District (hereinafter "System") for violation of
11 a directive of Domestic Water Supply Permit Amendment No. 03-12-12P-005 and violation of
12 the secondary maximum contaminant level for color.

13
14 A copy of the applicable statutes and regulations are included in Appendix 1, which is attached
15 hereto and incorporated by reference.

16 17 **STATEMENT OF FACTS**

18 The System is classified as a community water system with a population of approximately 4143
19 persons, serving 1345 service connections. The System is operating under Domestic Water
20 Supply Permit No. 03-12-97P-005 (hereinafter "Permit"), issued on February 19, 1997. This
21 permit has been amended one (1) time since that issuance. Permit Amendment No. 03-12-
22 12PA-005 ("hereinafter "Permit Amendment") is the most recent amendment.

23
24 The System supply two approved groundwater sources, Wells No. 01 and 02. Well No. 01 is
25 permitted to have approved treatment for arsenic, color, odor, and continuous chlorination at
26 Well No. 01. According to the Water System, the treatment at Well No. 01 is only being used
27 to treat for color and odor, not arsenic.

Based on the monthly treatment reports and the data in the Division's water quality database, the Water System's color treatment at Well No. 01 has not delivering treated water that at minimum meets the secondary maximum contaminant level (MCL) for color, which is 15 units. The treatment goal is typically 80% the MCL. The Water System samples the raw and treated water at Well No. 01 on a quarterly basis for laboratory analysis. Table 1 shows the raw and treated color results for Well No. 01 as reported by the laboratory that did the analysis and it also shows that the treated water exceeds the color MCL. In addition, the Water System typically takes samples every week at the raw water and daily samples at the treated water for Well No. 01 and reports this data in monthly treatment reports. Historical data for color treatment, as reported by the Water System's monthly treatment reports, at Well No. 01 is attached in Appendix 2.

Table 1: Average Color Results (Units) for Well No. 01 (2015-2016)

Table 1: Well No. 01 Color Monitoring Results

Sample Quarter	Well No. 01 - Raw	Well No. 01 – Treated
1 st Quarter of 2015	100 units	30*
2 nd Quarter of 2015	100 units	20*
3 rd Quarter of 2015	100 units	20*
4 th Quarter of 2015	75 units	30*

*Exceeds color MCL

Well No. 02 has historically exceeded the color MCL. Since 2012, the Water System has been monitoring for color for Well No. 02 on a quarterly basis, in accordance with Section 64449 (c), the Water System was required to begin quarterly color monitoring of each well. Section 64449 (c)(1) provides that compliance with the color MCL is based on a "running annual average" (RAA) of the quarterly monitoring samples, computed each quarter.

A summary of the Water System's color monitoring for Well No. 02 for the most recent running annual average is presented in Table 2 below. All results are as reported to the Division by the

laboratory that performed the analysis. For historical color data for Well No. 02, please see Appendix 3.

Table 2: Well No. 02 Color Monitoring Results

Sample Quarter	Sample Result
2 nd Quarter of 2015	25 units
3 rd Quarter of 2015	50 units
4 th Quarter of 2015	50 units
1 st Quarter of 2016	50 units
1st Quarter 2016 Running Annual Average	44 units*

*Exceeds color MCL

The 1st quarter 2016 RAA for Well No. 02, calculated as the four sample results averaged over a four quarter period, is 44 units, which exceeds the color MCL of 15 units. Results of samples taken from water produced from Well No. 02 since April 2013 show that the RAA for arsenic in said Well No. 02 continues to exceed the arsenic MCL. Although Well No. 02 exceeds the color MCL, the Water System is planning to destroy Well No. 02 during the current SRF construction project.

DETERMINATION

Based on the above Statement of Facts, the Division has determined that the Water System has violated CHSC, Section 64449 in that the water produced by Well No. 02 during the 1st quarter of 2016, exceeded the color MCL as shown in Table 2 above, and further has determined that said violation has continued from April 2013 and through the date of this Order.

In addition, the Permit Amendment includes conditions that the System is required to comply with, which were deemed necessary to assure a reliable and adequate supply of water at all

times that is pure, wholesome, potable, and does not endanger the health of consumers. Please see Appendix 4 for a copy of the System's Permit Amendment. The conditions included the following:

7. *By November 1, 2012, Armona CSD should submit a copy of an updated Operations Plan to the Visalia District Office for approval.*
8. *The Armona CSD treatment facility shall be operated in accordance with an approved Operations Plan. The Operations Plan shall include a sampling schedule, trigger levels and appropriate action to be taken by the water system to ensure the compliance with the arsenic MCL of 0.010 mg/L at all times. The Armona CSD shall submit draft revisions to the Visalia District Office of the Division for review and approval whenever there are proposed changes to the operations of the treatment plant.*

To date, the Division has not received an updated Operations Plan from the Water System. Therefore, the Division has determined that during December 2015 the System has failed to comply with Provision No. 7 of Domestic Water Supply Permit Amendment No. 03-12-12PA-005.

DIRECTIVES

The System is hereby directed to take the following actions:

1. On or before **September 1, 2016**, comply with Provision No. 7 of Permit Amendment No. 03-12-13P-010 and submit a copy of an updated Operations Plan to the Visalia District Office for review and approval.
2. On or before **October 1, 2016**, prepare and submit a Corrective Action Plan identifying improvements designed to correct the color treatment technique problem at Well No. 01 and discussing how to comply with the color secondary MCL (see Sections 64449.2 and 64449.4).

1 All submittals required by this Citation shall be submitted to the Division at the following
2 address:

3 Tricia Wathen, P.E., Senior Sanitary Engineer
4 State Water Resources Control Board
5 Division of Drinking Water, Visalia District
6 265 W. Bullard Ave, Suite 101
7 Fresno, CA 93704

8 The State Board reserves the right to make such modifications to the Citation as it may deem
9 necessary to protect public health and safety. Such modifications may be issued as
10 amendments to this Citation and shall be effective upon issuance.

11 Nothing in this Citation relieves the System of its obligation to meet the requirements of the
12 California SDWA (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270),
13 or any regulation, standard, permit or order issued or adopted thereunder.

14 **PARTIES BOUND**

15 This Citation shall apply to and be binding upon the System, its owners, shareholders, officers,
16 directors, agents, employees, contractors, successors, and assignees.

17 **SEVERABILITY**

18 The directives of this Citation are severable, and the System shall comply with each and every
19 provision hereof, notwithstanding the effectiveness of any other provision.

20 **FURTHER ENFORCEMENT ACTION**

21 The California SDWA authorizes the State Board to: issue a citation with assessment of
22 administrative penalties to a public water system for violation or continued violation of the
23 requirements of the California SDWA or any regulation, permit, standard, citation, or order
24 issued or adopted thereunder including, but not limited to, failure to correct a violation identified
25
26
27

APPENDIX 1. APPLICABLE STATUTES AND REGULATIONS FOR

Violations of Permit Provision for Color Treatment and Color Secondary Maximum Contaminant Level

California Health and Safety Code (CHSC):

Section 116271 states in relevant part:

(a) The State Water Resources Control Board succeeds to and is vested with all of the authority, duties, powers, purposes, functions, responsibilities, and jurisdiction of the State Department of Public Health, its predecessors, and its director for purposes of all of the following:

- (1) The Environmental Laboratory Accreditation Act (Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101).
- (2) Article 3 (commencing with Section 106875) of Chapter 4 of Part 1.
- (3) Article 1 (commencing with Section 115825) of Chapter 5 of Part 10.
- (4) This chapter and the Safe Drinking Water State Revolving Fund Law of 1997 (Chapter 4.5 (commencing with Section 116760)).
- (5) Article 2 (commencing with Section 116800), Article 3 (commencing with Section 116825), and Article 4 (commencing with Section 116875) of Chapter 5.
- (6) Chapter 7 (commencing with Section 116975).
- (7) The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Division 43 (commencing with Section 75001) of the Public Resources Code).
- (8) The Water Recycling Law (Chapter 7 (commencing with Section 13500) of Division 7 of the Water Code).
- (9) Chapter 7.3 (commencing with Section 13560) of Division 7 of the Water Code.
- (10) The California Safe Drinking Water Bond Law of 1976 (Chapter 10.5 (commencing with Section 13850) of Division 7 of the Water Code).
- (11) Wholesale Regional Water System Security and Reliability Act (Division 20.5 (commencing with Section 73500) of the Water Code).
- (12) Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Division 26.5 (commencing with Section 79500) of the Water Code).

(b) The State Water Resources Control Board shall maintain a drinking water program and carry out the duties, responsibilities, and functions described in this section. Statutory reference to "department," "state department," or "director" regarding a function transferred to the State Water Resources Control Board shall refer to the State Water Resources Control Board. This section does not impair the authority of a local health officer to enforce this chapter or a county's election not to enforce this chapter, as provided in Section 116500...

- (k)
- (1) The State Water Resources Control Board shall appoint a deputy director who reports to the executive director to oversee the issuance and enforcement of public water system permits and other duties as appropriate. The deputy director shall have public health expertise.
 - (2) The deputy director is delegated the State Water Resources Control Board's authority to provide notice, approve notice content, approve emergency notification plans, and take other action pursuant to Article 5 (commencing with Section 116450), to issue, renew, reissue, revise, amend, or deny any public water system permits pursuant to Article 7 (commencing with Section 116525), to suspend or revoke any public water system permit pursuant to Article 8 (commencing with Section 116625), and to issue citations, assess penalties, or issue orders pursuant to Article 9 (commencing with Section 116650). Decisions and actions of the deputy director taken pursuant to Article 5 (commencing with Section 116450) or Article 7 (commencing with Section 116525) are deemed decisions and actions taken, but are not subject to reconsideration, by the State Water Resources Control Board. Decisions and actions of the deputy director taken pursuant to Article 8 (commencing with Section 116625) and Article 9 (commencing with Section 116650) are deemed decisions and actions taken by the State Water Resources Control Board, but any aggrieved person may petition the State Water Resources Control Board for reconsideration of the decision or action. This subdivision is not a limitation on the State Water Resources Control Board's authority to delegate any other powers and duties.

Section 116540 states in relevant part:

Following completion of the investigation and satisfaction of the requirements of subdivisions (a) and (b), the department shall issue or deny the permit. The department may impose permit conditions, requirements for system improvements, and time schedules as it deems necessary to assure a reliable and adequate supply of water at all times that is pure, wholesome, potable, and does not endanger the health of consumers.

Section 116555 states in relevant part:

(a) Any person who owns a public water system shall ensure that the system does all of the following:

- (1) Complies with primary and secondary drinking water standards.
- (2) Will not be subject to backflow under normal operating conditions.
- (3) Provides a reliable and adequate supply of pure, wholesome, healthful, and potable water.

Section 116650 states in relevant part:

(a) If the department determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the department may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date

of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.

(b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.

(c) A citation may specify a date for elimination or correction of the condition constituting the violation.

(d) A citation may include the assessment of a penalty as specified in subdivision (e).

(e) The department may assess a penalty in an amount not to exceed one thousand dollars (\$1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation.

California Code of Regulations, Title 22 (CCR):

Article 16. Secondary Drinking Water Standards

Section 64449. Secondary Maximum Contaminant Levels and Compliance:

(a) The secondary MCLs shown in Tables 64449-A and 64449-B shall not be exceeded in the water supplied to the public by community water systems.

**Table 64449-A
Secondary Maximum Contaminant Levels
"Consumer Acceptance Contaminant Levels"**

<i>Constituents</i>	<i>Maximum Contaminant Levels/Units</i>
Aluminum	0.2 mg/L
Color	15 Units
Copper	1.0 mg/L
Foaming Agents (MBAS)	0.5 mg/L
Iron	0.3 mg/L
Manganese	0.05 mg/L
Methyl- <i>tert</i> -butyl ether (MTBE)	0.005 mg/L
Odor—Threshold	3 Units
Silver	0.1 mg/L
Thiobencarb	0.001 mg/L
Turbidity	5 Units
Zinc	5.0 mg/L

**Table 64449-B
Secondary Maximum Contaminant Levels
"Consumer Acceptance Contaminant Level Ranges"**

<i>Constituent, Units</i>	<i>Maximum Contaminant Level Ranges</i>		
	<i>Recommended</i>	<i>Upper</i>	<i>Short Term</i>
Total Dissolved Solids, mg/L or	500	1,000	1,500
Specific Conductance, μ S/cm	900	1,600	2,200
Chloride, mg/L	250	500	600
Sulfate, mg/L	250	500	600

(b) Each community water system shall monitor its groundwater sources or distribution system entry points representative of the effluent of source treatment every three years and its approved surface water sources or distribution system entry points representative of the effluent of source treatment annually for the following:

- (1) Secondary MCLs listed in Tables 64449-A and 64449-B; and
- (2) Bicarbonate, carbonate, and hydroxide alkalinity, calcium, magnesium, sodium, pH, and total hardness.

(c) If the level of any constituent in Table 64449-A exceeds an MCL, the community water system shall proceed as follows:

- (1) If monitoring quarterly, determine compliance by a running annual average of four quarterly samples;
- (2) If monitoring less than quarterly, initiate quarterly monitoring and determine compliance on the basis of an average of the initial sample and the next three consecutive quarterly samples collected;
- (3) If a violation has occurred (average of four consecutive quarterly samples exceeds an MCL), inform the State Board when reporting pursuant to Section 64469;
- (4) After one year of quarterly monitoring during which all the results are below the MCL and the results do not indicate any trend toward exceeding the MCL, the system may request the State Board to allow a reduced monitoring frequency.

Appendix 1. Applicable Statutes And Regulations

- (d) For the constituents shown on Table 64449-B, no fixed consumer acceptance contaminant level has been established.
- (1) Constituent concentrations lower than the Recommended contaminant level are desirable for a higher degree of consumer acceptance.
 - (2) Constituent concentrations ranging to the Upper contaminant level are acceptable if it is neither reasonable nor feasible to provide more suitable waters.
 - (3) Constituent concentrations ranging to the short term contaminant level are acceptable only for existing community water systems on a temporary basis pending construction of treatment facilities or development of acceptable new water sources.
- (e) New services from community water systems serving water which carries constituent concentrations between the Upper and Short Term contaminant levels shall be approved only:
- (1) If adequate progress is being demonstrated toward providing water of improved mineral quality.
 - (2) For other compelling reasons approved by the State Board.
- (f) A community water system may apply to the State Board for a waiver from the monitoring frequencies specified in subsection (b), if the system has conducted at least three rounds of monitoring (three periods for groundwater sources or three years for approved surface water sources) and these analytical results are less than the MCLs. The water system shall specify the basis for its request. A system with a waiver shall collect a minimum of one sample per source while the waiver is in effect and the term of the waiver shall not exceed one compliance cycle (i.e., nine years).
- (g) Nontransient-noncommunity and transient-noncommunity water systems shall monitor their sources or distribution system entry points representative of the effluent of source treatment for bicarbonate, carbonate, and hydroxide alkalinity, calcium, iron, magnesium, manganese, pH, specific conductance, sodium, and total hardness at least once. In addition, nontransient-noncommunity water systems shall monitor for the constituents in Tables 64449-A and B at least once.

Section 64449.2. Waivers for Secondary MCL Compliance.

- (a) If the average of four consecutive quarters of sample results for a constituent that does not have a primary MCL is not greater than three times the secondary MCL or greater than the State Notification Level, an existing community water system is eligible to apply for a nine-year waiver of a secondary MCL in Table 64449-A, for the following:
- (1) An existing source; or
 - (2) A new source that is being added to the existing water system, as long as:
 - (A) The source is not being added to expand system capacity for further development; and
 - (B) The concentration of the constituent of concern in the new source would not cause the average value of the constituent's concentration at any point in the water delivered by the system to increase by more than 20%.
- (b) To apply for a waiver of a secondary MCL, the community water system shall conduct and submit a study to the State Board within one year of violating the MCL that includes the following:
- (1) The water system complaint log, maintained pursuant to section 64470(a), along with any other evidence of customer dissatisfaction, such as a log of calls to the county health department;
 - (2) An engineering report, prepared by an engineer registered in California with experience in drinking water treatment, that evaluates all reasonable alternatives and costs for bringing the water system into MCL compliance and includes a recommendation for the most cost-effective and feasible approach;
 - (3) The results of a customer survey distributed to all the water system's billed customers that has first been approved by the State Board based on whether it includes:
 - (A) Estimated costs to individual customers of the most cost-effective alternatives presented in the engineering report that are acceptable to the State Board based on its review of their effectiveness and feasibility;
 - (B) The query: "Are you willing to pay for (*identify constituent*) reduction treatment?";
 - (C) The query: "Do you prefer to avoid the cost of treatment and live with the current water quality situation?"
 - (D) The statement: "If you do not respond to this survey, (*insert system name*) will assume that you are in support of the reduction treatment recommended by the engineering report."
 - (4) A brief report (agenda, list of attendees, and transcript) of a public meeting held by the water system to which customers were invited, and at which both the tabulated results of the customer survey and the engineering report were presented with a request for input from the public.
- (c) A community water system may apply for a waiver for iron and/or manganese if, in addition to meeting the requirements in Subsection (b), an average of four consecutive quarter results for the source has not exceeded a State Notification Level for iron and/or manganese. In addition, the system shall include sequestering, as follows:
- (1) As one of the alternatives evaluated in the Engineering Report;
 - (2) In the customer survey as a query: "Are you willing to pay for iron and/or manganese sequestering treatment?"
- (d) Unless 50% or more of the billed customers respond to the survey, the community water system shall conduct another survey pursuant to Subsections (b) or (c) within three months from the date of the survey by sending the survey out to either all the customers again, or only the customers that did not respond to the survey. The water system shall not be eligible for a waiver until it achieves at least a 50% response rate on the survey.
- (e) If the customer survey indicates that the percentage of billed customers that voted for constituent reduction treatment and the number of billed customers that did not respond to the survey at all exceeds 50% of the total number of billed customers, the

Appendix 1. Applicable Statutes And Regulations

community water system shall install treatment, except as provided in Subsection (f), within three years from the date the system completed the customer survey, pursuant to a schedule established by the State Board.

(f) For iron and/or manganese MCL waiver applications, if the percentage of survey respondents that voted for constituent reduction treatment plus the percentage of survey respondents that voted for sequestering exceeds the percentage that voted to avoid the cost and maintain the current water quality situation, the community water system shall implement either constituent reduction treatment or sequestering, on the basis of which was associated with the higher percentage result. If the highest percentage result is for sequestering, the system shall submit a sequestering implementation and assessment plan to the State Board that includes:

- (1) A description of the pilot testing or other type of evaluation performed to determine the most effective sequestering agent for use in the system's water;
- (2) The sequestering agent feed rate and the equipment to be used to insure that the rate is maintained for each source;
- (3) An operations plan; and
- (4) The projected cost of sequestering including capital, operations and maintenance costs.

(g) To apply for renewal of a waiver for a subsequent nine years, the system shall request approval from the State Board at least six months prior to the end of the current waiver period. The renewal request shall include all monitoring and treatment operations data for the constituent for which the waiver had been granted and any related customer complaints submitted to the water system. Based on its review of the data and customer complaints, the State Board may require the water system to conduct another customer survey pursuant to this section before making a determination on the waiver renewal.

Section 64449.4. Use of Sources that Exceed a Secondary MCL and Do Not Have a Waiver.

A source that exceeds one or more of the secondary MCLs in Table 64449-A and does not have a waiver may be used only if the source meets the requirements in Section 64414, and the community water system:

- (a) Meters the source's monthly production and submits the results to the State Board by the 10th day of the next month;
- (b) Counts any part of a day as a full day for purposes of determining compliance with Section 64414(c);
- (c) As a minimum, conducts public notification by including information on the source's use (dates, constituent levels, and reasons) in the Consumer Confidence Report (Sections 64480 through 64483);
- (d) Provides public notice prior to use of the source by electronic media, publication in a local newspaper, and/or information in the customer billing, if the situation is such that the water system can anticipate the use of the source (e.g., to perform water system maintenance); and
- (e) Takes corrective measures such as flushing after the source is used to minimize any residual levels of the constituent in the water distribution system.

Section 64449.5. Distribution System Physical Water Quality.

(a) The water supplier shall determine the physical water quality in the distribution system. This determination shall be based on one or more of the following:

- (1) Main flushing operations and flushing records.
- (2) Consumer complaint records showing location, nature and duration of the physical water quality problem.
- (3) Other pertinent data relative to physical water quality in the distribution system.

(b) If the State Board determines that a water system does not have sufficient data on physical water quality in the distribution system to make the determination required in paragraph (a), the water supplier shall collect samples for the following general physical analyses: color, odor, and turbidity. Samples shall be collected from representative points in the distribution system:

- (1) For community water systems with 200 to 1,000 service connections: one sample per month.
- (2) For community water systems with greater than 1,000 service connections: one sample for every four bacteriological samples required per month.
- (3) For community water systems with less than 200 service connections: as established by the local health officer or the State Board.

(c) Odor samples required as a part of general physical analyses may be examined in the field as per Section 64415(b).

(d) The distribution system water of public water systems shall be free from significant amounts of particulate matter.

STATE OF CALIFORNIA

***AMENDMENT TO THE
DOMESTIC WATER SUPPLY PERMIT***

Issued to

Armona Community Services District

Public Water System No. 1610001

By the

California Department of Public Health

Division of Drinking Water & Environmental Management



ORIGINAL PERMIT NO: 03-12-97P-003

DATE: February 19, 1997

PERMIT AMENDMENT NO: 03-12-12PA-005 EFFECTIVE DATE: August 14, 2012

WHEREAS:

1. The Armona Community Services District (Armona CSD) submitted a permit amendment application to the California Department of Public Health (Department) on June 12, 2012, for the addition of arsenic removal treatment at Well No. 01.
2. The application was submitted in accordance with California Health and Safety Code, Section 116525.
3. This public water system is known as the Armona Community Services District water system, whose mailing address is: P.O Box 486, Armona, CA. The Armona CSD is the legal owner of the water system. Therefore, the Armona CSD is responsible for compliance with all statutory and regulatory drinking water requirements and the conditions set forth in this permit.
4. The public water system for which the permit was written is described briefly below (a more detailed description of the permitted system is described in the attached report):

The domestic water supply is obtained from groundwater supplied by two (2) active wells: Wells Nos. 1 and 2. There are two (2) storage tanks with a combined capacity of approximately 500,000 gallons.

And WHEREAS:

1. The Armona Community Services District has submitted all of the required information relating to the proposed operation of the Armona Community Services District water system.
2. The California Department of Public Health has evaluated all of the information submitted by the Armona Community Services District water system and has conducted a physical investigation of the water system.
3. The California Department of Public Health has the authority to issue domestic water supply permits pursuant to Health and Safety Code Section 116540.

THEREFORE: The California Department of Public Health has determined the following:

1. The Armona Community Services District water system meets the criteria for and is hereby classified as a community water system.
2. The applicant has demonstrated that the proposed Armona Community Services District water system has sufficient source capacity to serve the anticipated water demand for the system.
3. The design of the water system complies with the Water Works Standards and all applicable regulations.
4. The applicant has demonstrated adequate technical, managerial, and financial capacity to reliably operate the water system.
5. Provided the following conditions are complied with, the Armona Community Services District water system should be capable of providing water to consumers that is pure, wholesome, and potable and in compliance with statutory and regulatory drinking water requirements at all times.

THE ARMONA COMMUNITY SERVICES DISTRICT IS HEREBY ISSUED
THIS DOMESTIC WATER SUPPLY PERMIT TO OPERATE THE
ARMONA COMMUNITY SERVICES DISTRICT.

The Armona Community Services District water system shall comply with the following permit conditions:

1. The Armona CSD shall comply with all the requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards or orders adopted thereunder.

2. The only approved sources of domestic water supply for use by the Armona CSD are listed in the table below.

Approved Sources

Source Name	Status	Primary Station Number
Well No. 01 - RAW	Active	1610001-001
Well No. 02 - RAW	Active	1610001-007

3. The approved treatment facilities for use by the Armona CSD are arsenic, color and odor treatment at Well No. 1 and continuous chlorination at each active well site.

Approved Treatment

Plant Name	Primary Station Number	Treatment
Well No. 01 - Treated	1610001-009	Arsenic, Color, Odor and Continuous Chlorination
Well No. 02 - Treated	1610001-008	Continuous Chlorination

4. No additions, changes or modifications to the sources of water supply or water treatment processes outlined in Provisions Nos. 2 and 3 can be made without prior receipt of an amended domestic water supply permit from this Department.
5. Under the operator certification regulation, Armona CSD water system is classified as a D2 system. The Armona CSD must have a chief distribution operator who is certified, at a minimum, as a D2 distribution system operator.
6. All treatment facilities shall be operated by personnel who have been certified in accordance with the Regulations relating to Certification of Water Treatment Facility Operation, CCR, Title 22. The treatment plant at Well No. 1 is classified as a T2 treatment plant. The Armona CSD must have a chief treatment operator who is certified, at a minimum, as a T2 treatment operator.
7. By November 1, 2012, Armona CSD should submit a copy of an updated Operations Plan to the Visalia District Office for approval.
8. The Armona CSD treatment facility shall be operated in accordance with an approved Operations Plan. The Operations Plan shall include a sampling schedule, trigger levels and appropriate action to be taken by the water system to ensure the compliance with the arsenic MCL of 0.010 mg/L at all times. The Armona CSD shall submit draft revisions to the Visalia District Office of the CDHS-DDWEM for review and approval whenever there are proposed changes to the operations of the treatment plant.

9. The Arsenic Removal Treatment Facility shall be operated to meet the arsenic MCL of 0.010 mg/L. at all times. If the treatment plant compliance point sample result (combined treatment plant effluent) exceeds the MCL, the water system shall make adjustments to the treatment facility based on their approved Operations Plan. Compliance with the arsenic MCL shall be determined by a four quarter running annual average based on the monthly average of all compliance point sample results analyzed by a certified lab during the month.
10. The Armona CSD shall, at a minimum, follow the monitoring requirements of the Table below. The analytical results shall be submitted to the Department using electronic data transfer (EDT) and the PS Codes indicated. A summary report containing these results shall also be submitted by the 10th day of the following month to the Department. Daily operational records including, at a minimum, flow rates, total volume treated, daily chlorine residuals, operational changes, and unusual occurrences, shall be maintained by the Armona CSD.

Treatment Monitoring

Location	PS Code	Constituent	Frequency	Analysis
Well No.1 – RAW	1610001-001	Arsenic Total Coliform	Quarterly Monthly	Approved Lab, EDT Approved Lab
Well No. 1 - Treated	1610001-009	Arsenic Total Coliform	Monthly Monthly	Approved Lab, EDT Approved Lab

11. The Armona CSD shall submit to the Department a monthly operation report no later than the tenth day of the following month. The report will detail the Armona CSD's compliance with operational criteria, chemical usage, equipment calibrations, and customer complaints.
12. The Armona CSD shall monitor its active sources for total coliform bacteria. Monthly monitoring is required for all of the Armona CSD's wells. If a positive total coliform bacteria sample is detected, the sample shall also be analyzed for fecal coliform or *E. Coli* bacteria. The results of the positive coliform bacteria shall be reported as a density (MPN/100 ml), and not just the presence of coliform bacteria.
13. As a potential generator of hazardous waste, the Armona CSD should comply with all applicable regulations in, CCR Title 22, Division 4.5 Environmental Health Standards for the Management of Hazardous Waste, regarding the appropriate handling, management and disposal of residuals from the treatment plant. As soon as practical and prior to operation, the Armona CSD should contact the local Certified Unified Program Agency (CUPA) regarding the specific requirements for the potential generation of liquid or solid waste. For more information contact the CalEPA website for programs within the county of operation. <http://www.calepa.ca.gov/CUPA/Directory/default.aspx>


This permit amendment shall be appended to and shall be considered to be an integral part of the Domestic Water Supply Permit issued to the Armona Community Services District on February 19, 1997. It should be noted that the special provisions in the 1997 original permit have been rescinded.

This permit amendment supersedes all previous domestic water supply permits issued for this public water system and shall remain in effect unless and until it is amended, revised, reissued, or declared to be null and void by the California Department of Public Health. This permit is non-transferable. Should the Armona Community Services District water system undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

Any change in the source of water for the water system, any modification of the method of treatment as described in the permit report, or any addition of distribution system storage reservoirs shall not be made unless an application for such change is submitted to the California Department of Public Health.

This permit shall be effective as of the date shown on the first page of this permit.

FOR THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH


Tricia A. Wathen, P.E.
Visalia District Engineer

August 27, 2012
Date

Appendix 2: Historical Color Data for Well No. 01

Average Color (as units) Results for Well No. 01 (2010-2015)

Source: Armona CSD's monthly treatment reports

Month, Year	Well No. 01 – Raw	Well No. 01 – Treated
January, 2010	72	48*
February, 2010	70	43*
March, 2010	81	57*
April, 2010	92	69*
May, 2010	90	69*
June, 2010	98	75*
July, 2010	97	75*
August, 2010	88	67*
September, 2010	46	46*
October, 2010	51	32*
November, 2010	62	36*
December, 2010	57	36*
January, 2011	56	35*
February, 2011	68	40*
March, 2011	76	40*
April, 2011	65	41*
May, 2011	66	42*
June, 2011	59	37*
July, 2011	72	49*
August, 2011	70	46*
September, 2011	68	45*
October, 2011	N/A	N/A
November, 2011	80	29*
December, 2011	67	30*
January, 2012	69	32*
February, 2012	70	23*
March, 2012	62	30*
April, 2012	77	27*
May, 2012	67	29*
June, 2012	76	26*
July, 2012	71	29*
August, 2012	83	25*
September, 2012	82	26*
October, 2012	74	24*
November, 2012	76	20*
December, 2012	N/A	N/A
January, 2013	70	20*
February, 2013	62	20*
March, 2013	79	21*
April, 2013	77	26*
May, 2013	75	25*
June, 2013	76	30*

July, 2013	78	29*
August, 2013	83	27*
September, 2013	84	36*
October, 2013	80	31*
November, 2013	80	33*
December, 2013	71	29*
January, 2014	69	39*
February, 2014	76	42*
March, 2014	80	15
April, 2014	80	17*
May, 2014	94	28*
June, 2014	98	44*
July, 2014	106	48*
August, 2014	N/A	N/A
September, 2014	105	43*
October, 2014	98	49*
November, 2014	87	50*
December, 2014	86	57*
January, 2015	81	54*
February, 2015	68	47*
March, 2015	91	63*
April, 2015	99	63*
May, 2015	104	49*
June, 2015	106	52*
July, 2015	99	53*
August, 2015	106	69*
September, 2015	110	64*
October, 2015	99	68*
November, 2015	89	67*
December, 2015	Offline for repairs	
January, 2016	Offline for repairs	
February, 2016	Offline for repairs	
March, 2016	Offline for repairs	
April, 2016	133	53*
May, 2016	118	48*

DATE: 7/18/2016

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REPORT OF SYSTEM: 1610001

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SYSTEM NO: 1610001

NAME: ARMONA COMMUNITY SERVICES DIST

COUNTY: KINGS

SOURCE NO: 001

NAME: WELL 01 (DILLON) - BEFORE AS/H2S/COLOR

CLASS: CLGA

STATUS: Active

PSCODE	GROUP/CONSTITUENT IDENTIFICATION	DATE	RESULT	*	MCL	DLR	TRIGGER	UNIT
1610001001	1610001 ARMONA COMMUNITY SERVICES DIST	001	WELL 01 (DILLON) - BEFORE AS/H2S/COLOR					
	GP SECONDARY/GP							
	00081 COLOR	2006/10/11	45.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2009/01/20	40.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/01/18	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/07/24	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/11/07	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/01/16	45.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/04/10	60.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/07/31	60.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/11/06	60.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/02/19	60.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/05/30	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/09/03	80.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/11/19	75.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/04	100.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/11	100.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/31	100.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/06/03	100.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/07/08	100	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/10/07	75	*	15.000	-----	15.000	UNITS

DATE: 7/18/2016

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SYSTEM NO: 1610001 NAME: ARMONA COMMUNITY SERVICES DIST

COUNTY: KINGS

SOURCE NO: 007 NAME: WELL 02 (7TH DAY) - RAW

CLASS: CLGA

STATUS: Active

PSCODE	GROUP/CONSTITUENT IDENTIFICATION	DATE	RESULT	*	MCL	DLR	TRIGGER	UNIT
1610001007	1610001 ARMONA COMMUNITY SERVICES DIST	007	WELL 02 (7TH DAY) - RAW					
	GP SECONDARY/GP							
	00081 COLOR	2006/10/11	30.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2009/01/20	35.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/01/17	35.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/07/24	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/11/07	60.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/02/13	35.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/04/10	35.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/07/31	30.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/11/06	45.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/02/19	40.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/05/30	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/09/03	60.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/11/19	40.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/04	40.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/11	45.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/31	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/06/03	25.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/07/08	50	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/10/07	50	*	15.000	-----	15.000	UNITS
	00081 COLOR	2016/03/02	50	*	15.000	-----	15.000	UNITS

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SYSTEM NO: 1610001

NAME: ARMONA COMMUNITY SERVICES DIST

COUNTY: KINGS

SOURCE NO: 008

NAME: WELL 02 (7TH DAY) - CL2 (AS COMPL PT)

CLASS: OTHR

STATUS: Active

PSCODE	GROUP/CONSTITUENT IDENTIFICATION	DATE	RESULT	*	MCL	DLR	TRIGGER	UNIT
1610001008	1610001 ARMONA COMMUNITY SERVICES DIST	008	WELL 02 (7TH DAY) - CL2 (AS COMPL PT)					
	GP SECONDARY/GP							
	00081 COLOR	2012/07/24	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/11/07	35.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/02/13	60.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/04/10	20.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/07/31	50.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/11/06	25.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/11/19	25	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/10/07	25	*	15.000	-----	15.000	UNITS
	00081 COLOR	2016/03/02	20	*	15.000	-----	15.000	UNITS

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 REPORT OF SYSTEM: 1610001

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SYSTEM NO: 1610001

NAME: ARMONA COMMUNITY SERVICES DIST

COUNTY: KINGS

SOURCE NO: 009

NAME: WELL 01 (DILLON) - AFTER AS/H2S/COLOR

CLASS: OTHR

STATUS: Active

PSCODE	GROUP/CONSTITUENT IDENTIFICATION	DATE	RESULT	*	MCL	DLR	TRIGGER	UNIT
1610001009	1610001 ARMONA COMMUNITY SERVICES DIST	009	WELL 01 (DILLON) - AFTER AS/H2S/COLOR					
	GP SECONDARY/GP							
	00081 COLOR	2012/07/24	20.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2012/11/07	20.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/01/16	15.0000		15.000	-----	15.000	UNITS
	00081 COLOR	2013/04/10	15.0000		15.000	-----	15.000	UNITS
	00081 COLOR	2013/07/31	20.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2013/11/06	20.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/02/19	30.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/09/03	25.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2014/11/19	30.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/11	30.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/03/31	30.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/06/03	20.0000	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/07/08	20	*	15.000	-----	15.000	UNITS
	00081 COLOR	2015/10/07	30	*	15.000	-----	15.000	UNITS